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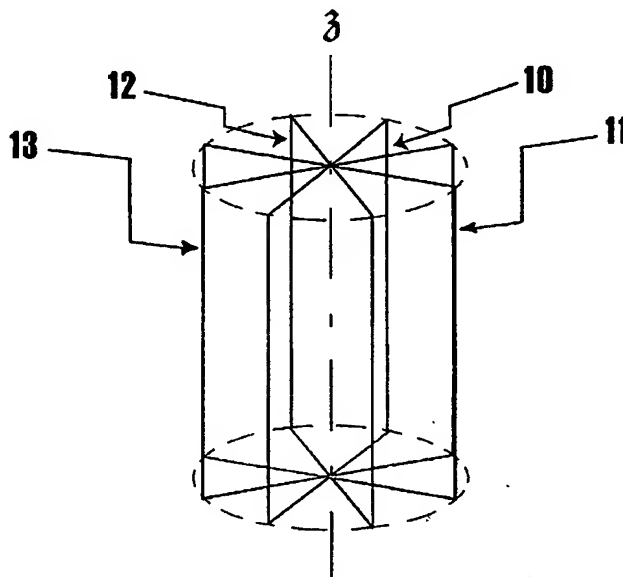
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[Continued on next page]

(54) Title: COIL ARRAY FOR MAGNETIC RESONANCE IMAGING



(57) Abstract: A radio frequency (RF) coil array is used in resonance imaging and/or analysis of a subject located within a cylindrical space in which a magnetic field is operatively applied in an axial direction (z). The coil array comprises a plurality of coil elements (10,11,12,13) angled relative to each other about the axis of the cylindrical space, each coil element having a pair of main conductors extending generally parallel to the direction of the magnetic field and located on diametrically opposite sides of the cylindrical space, and a pair of connection conductors connected between respective ends of the main conductors. Each coil element has its maximum sensitivity near the centre of the cylindrical space, so that the subject under study is located in a region of maximum sensitivity.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER		
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According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT (image, plural, array, coil, conductoor, antenna, cylinder, axial resonance)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6411090 B1 (BOSKAMP) 25 June 2002 Column 3, line 36 - column 4, line 44; column 5, lines 8-24	1-18
X	US 4833409 A (EASH) 23 May 1989 Column 3, line 58 - column 6, line 46	1-18
X	EP 301232 B1 (GENERAL ELECTRIC COMPANY) 15 February 1995 Column 6, line 14 - column 11, line 7	1-18
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4686473 A (CHESNEAU et al.) 11 August 1987 Column 3 line 10 - column 9, line 47	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/01116

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member		
US	6411090	EP	1273926	JP	2003033332
US	4833409	EP	322192	JP	2004329
EP	301232	FI	882859	JP	1104253
				US	4799016
US	4686473	EP	170558	FR	2567647
END OF ANNEX					